BRUHAT BANGALORE MAHANAGARA PALIKE

Name of Work:-Development of Parks and Providing Childrens Playing Equipments in Judidicial Layout and GKVK Layout in Ward no 04

Est Cost: =150.00 Lakhs

	KSRRB 200-8. Clearing and grubbing road land including uprooting rank vegetation, grass, brush, shrubs, saplings and trees of girth upto 300mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials labour charges complete as per specifications. MORTH / Chapter 2 (P.No.138, I.No.18.11 of PW, P&IWTD SR 2018-19)								
1	Park	Sqm							
	MIG Park 4		0.5	30.00	135.00		2025.00		
							2025.00	10.60	21465.00
	Basic rate	10.00							
	Area Weightage 6%	0.60							
	Total	10.60							
	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH / Chapter 3 (P.No.143, I.No.19.1 of PW, P&IWTD SR 2018-19)								
	Park	Cum							
	MIG Park 4		1	260.00	3.00	0.20	156.00		
2	Platform For Benches		22	2.50	1.50	0.30	24.75		
	Gym equipment area		1	12.00	10.00	0.40	48.00		
	Children Play area		2	14.00	18.00	0.30	151.20		
							379.95	211.79	80468.85
	Basic rate	130.00							
	Loading and unloading with	69.80							
	Area Weightage 6%	11.99							
	Total	211.79							
	KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 (P.No.222, I.No.27.18 of PW,P&IWTD S.R 2018-19)								
	For Kerb Stones	Cum							
			2	260.00	0.20	0.10	10.40		
	For Benches		22	2.50	1.50	0.150	12.38		
3	Children Play area kerb stone		2	64.00	0.20	0.10	2.56		
	Gym equipment kerb stone		2	44.00	0.20	0.10	1.76		
	Gym equipment area		1	12.00	10.00	0.15	18.00		
							45.10	5421.90	244500.58
	A.Basic rate	5115.00							
	B.Area Weightage 6%	306.90							
	Total	5421.90							
	KSRB 4-1.6 ; Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.12, I.No. 4.6 of PW, P&IWTD SR2016-17)								
4		Cum							
	For Benches								
	mass concrete for fixing equipments		65	0.60	0.75	0.60	17.55		
							17.55	5876.28	103128.71
	A.Basic rate	5441.00							
	B.Area Weightage 6%	435.28							
	Total	5876.28							

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5	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli gray granite in CM 1:4 proportion, cut to required shape, pattern with paper joints, finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, groves in joints including cost of curing - minimum width of 900mm. (P.No 112, I.No 14.61.2 of PW,P&IWTD S.R 2018-19)								
	Flooring slab	Sqm	22	2.50	1.50	--	82.50		
	Granite stone around Bench		22	8.00	0.30	--	52.80		
							135.30	2097.74	283824.22
	A.Basic rate	1979.00							
	B.Area Weightage 6%	118.74							
	Total	2097.74							
6	KSRRB M400-19: Construction of Median and island above road level with approved material deposited from borrowpits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.407 (P.No155 of I.No.20.20 in PW,P&IWTD SR 2018-19)								
	Park	cum							
	Prak 4		1	260.00	3.00	0.30	234.00		
	For Benches		1	2.50	1.50	0.20	0.75		
							234.75	221.54	52006.52
	A.Basic rate	209.00							
	B.Area Weightage 6%	12.54							
	Total	221.54							
7	Supplying and Fixing of Garbage bins rectangular with permanent structure series without arch 100litre capacity approved by Engineer in charge								
	Garbage Bins	No's					8.00		
							8.00	18450.00	147600.00
	Approved Data Rate	18450.00							
8	Executive bench made out of sadaralli grey stone with hand suport 3 line finishing with arch desiagn with 100cm slabs height 90% length 45cms (data approved rate)								
	Stone Benches	No's	22				22		
							22	18200.00	400400.00
	Approved Data Rate	18200.00							
9	KSRRB M400-17: Providing, laying, spreading and compacting graded stones aggregate to Wet Mix Macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mix method of tipper to site,Laying in uniform layers with paver in subbase/base course on the well prepared surface and compacting with vibratory rollers to achive the desired density complete as per MORTH specification No. 406.etc with all lead and lifts and as per directions of the Engineer-in-charge(Page No:155 Item No: 20.18, of KPWD SR Bangalore Circle 2018-19)								
	Park	cum							
	Park 1		1	260.00	3.00	0.15	117.00		
							117.00	2001.28	234149.76
	A.Basic rate	1888.00							
	B.Area Weightage 6%	113.28							
	Total	2001.28							
10	KSRB 14.6-1: Providing & laying heavy duty cobble stones 60mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19)								
	Park 4	Sqm							
			1	260	3.00	--	780.00		
							780.00	1116.18	870620.40
	Basic rate	1053.00							
	Area Weightage 6%	63.18							
	Total	1116.18							

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11	Providing and fixing pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. (P.No 27 of I.No.5.30 in PW,P&IWTD SR 2018-19)								
	Park 4	No.							
			2	260.00		/0.45	520.00		
	Gym equipment area		2	44.00		/0.45	88.00		
	Children Play area kerb stone		2	64.00		/0.45	128.00		
							736.00	432.48	318305.28
	Basic rate	408.00							
	Area Weightage 6%	24.48							
	Total	432.48							
12	KSRRB 800-1 Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (Page No.180. Iitem no.24.1 of KPWD S.R Bangalore Circle 2018-2019)								
	Park Fencing	Sqm							
	Park 4		2	260.00		0.35	182.00		
	Gym equipment area		2	44.00		0.35	30.80		
	Children Play area kerb stone		4	64.00		0.35	89.60		
							302.40	84.80	25643.52
	Basic rate	80.00							
	Area Weightage 6%	4.80							
	Total	84.80							
13	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint (P.No 266 of I.No.37.3 in PW,P&IWTD SR 2018-19)								
	Chain Link Fencing for Missing and Damaged Length	Sqm							
	Park 1		30	2.40	1.80		129.60		
	Park 2		20	2.40	2.40		115.20		
	Park 3		20	2.40	1.80		86.40		
	Park 4		36	2.40	1.80		155.52		
							486.72	757.90	368885.09
	Basic rate	715.00							
	Area Weightage 6%	42.90							
	Total	757.90							
14	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete) (P.No 266 of I.No.37.2 in PW,P&IWTD SR 2018-19)								
	Rectangular Pole	M							
	Park 1		18	2.10			37.80		
	Park 2		12	2.70			32.40		
	Park 3		12	2.10			25.20		
	Park 4		20	2.10			42.00		
							137.40	910.54	125108.20
	Basic rate	859.00							
	Area Weightage 6%	51.54							
	Total	910.54							
	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. (P.No.266 I.No.37.4 of PW,P&IWTD SR of 2018-19)								
	Horizontal Pipe for Chain Link Fencing								

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15	Park 1		30	2.00	2.40		144.00		
	Park 2		20	3.00	2.40		144.00		
	Park 3		20	2.00	2.40		96.00		
	Park 4		36	2.00	2.40		172.80		
							556.80	432.48	240804.86
	Basic rate	408.00							
	Area Weightage 6%	24.48							
	Total	432.48							
16	Fabricating, providing and erecting in position Hot dip galvanized Gate. Using 72 x 72 x 4.8mm Sq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50X6mm arch bent to hot dip galvanized flats. the work is inclusive of throughing GI, flat GI Sqm. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials Like G I Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm sold sq. block assembled with 20mm du bearing in three places for each flop. Heavy duty locking arrangement of low places including cost of labour, painting, erection charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineering charge of the work									
	Park 1,2,3 & 4	Sqm							
			6	2.50		2.10	31.50		
							31.50	12475.03	392963.45
	Data Rate	12475.03							
17	KSRB 15-18.2 : Providing and applying enamel metal paint two coats (excluding priming coat) over new steel or other metal surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including cost of materials, labour, complate as per specifications.(P 120/ I.15.74 PW,P & IWTD SR - 2018-19)								
	Painting of Metal Surface	Sqm							
	old Chain Link Fencing painting								
	Park Fencing								
	Park 1		1	620.00	1.80		1116.00		
	Park 2		1	660.00	2.40		1584.00		
	Park 3		1	254.00	1.80		457.20		
	Park 4		1	280.00	1.80		504.00		
	Deduct for New Chainlink Fencing								
	Park 1		-30	2.40	1.80		-129.60		
	Park 2		-20	2.40	2.40		-115.20		
	Park 3		-20	2.40	1.80		-86.40		
	Park 4		-36	2.40	1.80		-155.52		
							3174.48	100.70	319670.14
	Basic rate	95.00							
	Area Weightage 6%	5.70							
	Total	100.70							
	WATER RECHARGE PITS								
18	KSRB 2-2.2 : Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(b) / 2.3.5. Page No. 6 / Item No. 2.4 of PWD SR 2018-19								
	Main Pit	Cum	32	142x1.3x1.3 / 4		3.00	127.44		
	Basic Rate	449.00					127.44	588.38	74983.48
	Add loading and unloading Charges It No 17.1 KSRRB M 100-1	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.5 Tonne / km = 38.08	38.08							
		555.08							
	Area Weightage @ 6%	33.30							
	Total	588.38							

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19	KSRRB M2900-2.2. KSRRB M2900-2.1. Laying Reinforced cement concrete pipe NP4 / prestressed concrete pipe for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 but excluding excavation, protection works, backfilling, concrete and masonry works in head walls and parapets complete as per specifications. MORTH Specification No. 2900 B. 1200 mm dia MORTH Specification No. 2900 Pag No, 254, Item No. 34.3, PWD SR 2018-19								
	Rain Water Racharging Pits	m	32	3.00			96.00		
	Basic Rate	10145.00					96.00	10753.70	1032355.20
	Area Weightage @ 6%	608.70							
	Total	10753.70							
20	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications specification. No KBS Page No. 7 / Item No. 2.15 of PWD SR 2018-19								
	Rain Water Racharging Pits	Cum	32	142x1.0x1.0		0.45	11.31		
	Basic Rate	2429.00					11.31	2574.74	29123.40
	Area Weightage @ 6%	145.74							
	Total	2574.74							
	0734 - Providing Aggregate 53 mm nominal size (P.I / I. 24) PWD SR 2018-19								
		Cum							
21	Rain Water Racharging Pits Inside the Ring		32	142x1.0x1.0		0.45	11.31		
	Outside the Ring		32	142x1.0x3.0		0.45	135.73		
							147.05	1054.29	155028.71
	0750 - Providing Aggregate 40 mm nominal size (P.II / I. 25) PWD SR 2018-19								
22		Cum							
	Rain Water Racharging Pits		32	142x1.0x1.0		0.45	11.31	1091.43	12345.38
	0749 - Providing Aggregate 20 mm nominal size (P.II / I. 28) PWD SR 2018-19								
23		Cum							
	Rain Water Racharging Pits		32	142x1.0x1.0		0.45	11.31	1091.43	12345.38
	0334 - Providing sand / Artifical Sand / Manufactured sand (P.II / I. 49) PWD SR 2018-19								
24		Cum							
	Rain Water Racharging Pits		32	142x1.0x1.0		0.30	7.54	1591.43	12000.66
	PLAY AND GYM EQUIPMENT								
25	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, mortar, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification. (P.No-112,I No-14.62)								
	Gym equipment area	1	12.00	10.00		120.00			
						120.00	Sqm	1305.92	156710.40
	Basic Rate Rs.=	1232.00							
	Add 6% A.W Rs. =	73.92							
	Total Rate Rs. =	1305.92							
26	KSRRB 2.6 Providing and filling sand in trenches to required depth including watring ramming with all leads and lift complete as per specifications and directed by the engineer incharge at the site (P-7 I N-2.13 SR 2018-19)								
	Children Play area	2	14.00	18.00	0.30	151.20			
						151.20	Cum	2183.60	330160.32
	Basic Rate Rs.=	2060.00							
	Add 6% A.W Rs. =	123.60							
	Total Rate Rs. =	2183.60							
							Total "A"		6044597.50

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27	**Supply & fixing of Arm & Pedal Bike :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 830 MM x 500MM x 1450 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	212500.0	425000.00
	Data Rate	212500.00							
28	**Supply & fixing of Elliptical Cross Trainer:** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 845 MM x 865 MM x 1710 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	175000.0	350000.00
	Data Rate	175000.00							
29	**Supply & fixing of Pull Down Challenger :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide Size (L*W * H) 2570 MM x 840 MM x 2200 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges(Data approved rate)								
		2				2.00			
		2				2.00			

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						2.00	Each	287500.0	575000.00
	Data Rate	287500.00							
30	**Supply & fixing of Self Weighted Rower :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat and backrest is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1390 MM x 805 MM x 1198 MM . Capacity 1 person. Inclusive of All Taxes and Transportation Charges (Data approved rate)									
		2				2.00			
						2.00	Each	206250.0	412500.00
	Data Rate	206250.00							
31	**Supply & fixing of HD Double Health Walker :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings . Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 2015 MM x 615 MM x 1360 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges (Data approved rate)									
		2				2.00			
						2.00	Each	296000.0	592000.00
	Data Rate	296000.00							
32	**Supply & fixing of HD Waist Twister :**All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out in excess of at least 50 public park projects in India either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Footplates made of alloys of Nylon having good thermal stability. Internal Limited means no bump stops or crush points. Bearings : Maintenance-free ball bearings. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1460 MM x 1310 MM x 1150 MM . Capacity 3 persons. Inclusive of All Taxes and Transportation Charges (Data approved rate)									
		2				2.00			
						2.00	Each	162500.0	325000.00
	Data Rate	162500.00							

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33	**Fixing and installation of a three person body twister station:** Size -131 X 100 X 133CM, that consists of three swivel stands that rotates but with a built in safety limitor that meets international safety standards as the arms and shoulders of the user are held square in the overhead hold that is fixed to a monolithic large arc tube center pillar without convex sides & minimal deformation ergonomically curved. The Center pillar has an OD of 89 mm, the wall thickness is min 3 mm & has a 8mm thick, 40cm gusset support at standard height of 1.4m. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized / Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. Safe Zone : 430 X 400 CM. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		2				2.00			
						2.00	Each	234574.0	469148.00
	Data Rate	234574.00							
34	**Supply & fixing of Tai Chi Spinners :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. Bearings . Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1150 MM x 1120 MM x 1620 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges (Data approved rate)								
		1				1.00			
						1.00	Each	143750.0	143750.00
	Data Rate	143750.00							

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35	**Supply & fixing of HD Sit Up Station :** All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certifying Body such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certificates must be in the name of a supplier who has carried out a minimum of 100 public park projects in India with EN16630-GS certified products either by themselves or through their dealers or contractors. These EN16630 & GS Mark certificates must be clearly displayed on the notified certifying bodies websites as online verification is mandatory during technical bid. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scallopedrimer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 - 120 microns. All metal parts are tested in our salt spray machine that uses a 5% NaCL solution in accordance to ISO7227 to speed up corrosion for 3000 hrs. The seat is made from Rotomoulded LLDPE. Bearings : Maintenance-free ball bearings. Equipment which have sway and moving parts, must have built in limitors that prevent unwanted and ecesssive movement, which can cause injuries. The limitors must be in accordance with EN16630 safety norms. Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Size (L*W * H) 1365 MM x 1335 MM x 700 MM . Capacity 2 persons. Inclusive of All Taxes and Transportation Charges (Data approved rate)									
		1				1.00			
						1.00	Each	156250.0	156250.00
	Data Rate	156250.00							
36	**Fixing and Installation of a Foot Cycle :** Size - 97 X 45 X 133 CM, that has a central pin which connects the 2 heavy flywheels & which has 2 main bearings and in addition has a TEFLON RESISTANCE BEARING which locks the pin and creates resistance to the spin. The central pillar is a monolithic large arc tube without convex sides & minimal deformation which is ergonomically curved with an OD of 89 mm, the wall thickness is min 3 mm & has a 8mm thick, 40cm gusset support at standard height of 1.4m. All fasteners to be of 304 stainless, Torx Anti Vandal Fasteners, All nuts enclosed in Polyamide Anti Vandal Caps. Finishing to be Metalized / Plasma zinc injection + Dupont/Alexta outdoor use color powder electrostatic coating. The seat must consist of PU Polysafe cushions seats. Safe Zone : 247 X 195 CM. Inclusive of All Taxes and Transportation Charges									
		1				1.00			
						1.00	Each	245891.0	245891.00
	Data Rate	245891.00							
37	Supply and fixing of childern Multi Play Equipment :Upright structural posts of height 2.35 m , 3.0 m and 3.25 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Handrail of height 2.20 m and Dia 32 mm shall be an all-robotic welded unit, fabricated from 32 O.D. galvanized steel pipes with a baked on powder coating finish. Snake Ladder Climber of size 0.99 m x 0.62 m x 1.20 m with thickness of Dia 38 mm, Piped walls of Height 2.6 m are all robotic welded fabricated from 32 O.D. galvanized steel pipes for the outer pipes and 25mm O.D. galvanized steel for the inner parallel bars with a baked on powder coat finish. crab Roof of size 1.9 m x 1.7 m x 0.77m, Sun Roof of size 2.0 m x 1.78 m x 0.77m, Straight slide 2.28 m x 0.83 m x 1.20 m , Spiral Slide of size 2.22 m x 1.60 m x 1.5 m, Rock climber of size 1.03 m x 0.70 m x 1.20 m Panel. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges									
		2				2.00			
						2.00	Each	1498900.0	2997800.00
	Data Rate	3879484.00							
38	**Supply and fixing of childern Play Equipment Fiero A Swing :** Shaped structural posts of height 2.31 m are to be schedule HOT DIP Galvanized steel with a 114mm OD and 2.2mm (wall) thickness of the tubing. Plastic Components such as swing seats [super thick plastic] shall be animated and shall be rotationally molded from antistatic, copolymer, virgin linear low density UV stabilized polyethylene, with color molded in and minimum thickness of 6 - 8mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges (Data approved rate)									
		2				2.00			
						2.00	Each	126892.0	253784.00
	Data Rate	126892.00							
39	**Supply and fixing of childern Play Equipment Two seater seesaw :** The See Saw consists of 2 poles of Dia 114mm and thickness of 2.5mm which balances the horizontal rod at the center which is of size 3110 mm length and Dia 114 mm. It consists of 2 seats which is made of LLDPE virgin plastic of size 305mm X 213 mm X 125 mm. The rates are to be inclusive of supply and installation at site. Inclusive of All Taxes and Transportation Charges (Data approved rate)									
		4				4.00			
						4.00	Each	83478.0	333912.00

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	Data Rate	83478.00							

Total Amount B	7280035.00
Total Amount A	6044597.50
Total Amount B	7280035.00

A+B	1,33,24,632.50
GST 12% ON Total A	7,25,351.70
DPR 1 %	1,40,499.84
PMC 1 %	1,40,499.84
ADD Tender Premium 5%	6,66,231.63
Miscellaneous and unforeseen charges	2,784.49
Grand Total	1,50,00,000.00

Certificate.

1. The rates adopted based on the PWD SR, Bangalore circle for year 2018-19.
2. The provisions made in the estimate are necessary and essential.
3. The workspot was inspected and work is found to be necessary.
4. The area comes within the Bruhat Bangalore Mahanagara Palike limits.

Assistant Engineer | Assistant Executive Engineer | Executive Engineer

Technical Sanction
Accorded For Rs 1.50 in lakhs only
Head of A/C 3783
CER NO : 142 Dt. 19.11.2020

TA | CE (PMK)

SHRAVAN CONSTRUCTION AND CONSULTANCY

Administrative Sanction for Rs. 150.00 lakhs
Rupees One Crore Fifty lakhs
Only
is accorded under head P-3783
Development of Parks in W-01.03
G.A.
Registered as CE No. 99 Subject
to conditions contained in enclosed memo
No. BBMP/CE(PMK)/AS/99/20-21 Dt. 29/03/21

Executive Engineer